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NOTICE OF ALLOWANCE AND FEE(S) DUE

00116

7590

03/02/2004

PEARNE & GORDON LLP 1801 EAST 9TH STREET SUITE 1200 CLEVELAND, OH 44114-3108 EXAMINER
NEUDER, WILLIAM P

PAPER NUMBER

ART UNIT

DATE MAILED: 03/02/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/036.804	12/21/2001	Paris E. Blair	32237US2	5361

TITLE OF INVENTION: INTEGRATED TRANSMITTER SURVEYING WHILE BORING ENTRENCHING POWERING DEVICE FOR THE CONTINUATION OF A GUIDED BORE HOLE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/02/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

INSTRUCTIONS. This form abouted be used for premarating the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 heyes agreement as a present for the premaration of the current correspondence address a indicated unless correspondence with a substance desired to the current correspondence address a indicated unless correspondence address a indicated unless correspondence address and premaration of the feet of the premaration of the p					Alexandria, Virginia 22313-1450 (703) 746-4000			
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00116 7590 0A022504 PEARNE & GORDON LLP 1801 EAST 9TH STREET SUITE 1200 CLEVELAND, OH 44114-3108 CLEVELAND, OH 44114-3108 APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIDENTION NO. 10036,804 12721/2001 Paris E. Blair 32227US2 370 TITLE OF INVENTION: INTEGRATED TRANSMITTER SURVEYING WHILE BORING ENTRENCHING POWERING DEVICE FOR THE CONTINUATION OF ACUIDED BORE HOLE APPLICATION NO. SILING PROPERTY IN SUITE FEE PUBLICATION FEE TOTAL FEE(8) DUE DATE DUE APPLIN TYPE SHALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(8) DUE DATE DUE TONOR STANDARD RESIDENCE AND ACUIDED STANDARD PROPERTY OF A SURVEYING WHILE BORING ENTRENCHING POWERING DEVICE FOR THE CONTINUATION OF A CONTINUATION OF	CURRENT CORRESPONDENCE	CE ADDRESS (Note: Legibly mark-up v	with any corrections or	use Block 1)	Note: A certificate of	of mailing can only be used for	or domestic mailings of the	
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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/036,804 12/21/2001 Paris E. Blair 32237US2 5361 TITLE OF INVENTION: INTEGRATED TRANSMITTER SURVEYING WHILE BORING ENTRENCHING POWERING DEVICE FOR THE CONTINUATION OF A COUNTY OF THE	1801 EAST 9TH S SUITE 1200	TREET			I hereby certify that	this Fee(s) Transmittal is bein	g denosited with the United	
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PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment habeen previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government 4a. The following fee(s) are enclosed: A check in the amount of the fee(s) is enclosed. Payment by credit card. Form PTO-2038 is attached. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 35 U.S. 1.22 and 37 CFR 1.141. This collection is sestimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden,	☐ Change of correspond Address form PTO/SB/1: ☐ "Fee Address" indicati PTO/SB/47; Rev 03-02 of Number is required.	22) attached. on (or "Fee Address" Indication or more recent) attached. Use of	on form of a Customer	agents OR, altern firm (having as a agent) and the na attorneys or agen will be printed.	atively, (2) the name member a registered mes of up to 2 regists. If no name is list	e of a single I attorney or 2stered patent		
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Publication Fee Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S.						<u> </u>		
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Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.	obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT SEND TO: Commissioner Under the Paperwork Re	by the public which is to file y is governed by 35 U.S.C. 122 tes to complete, including gat m to the USPTO. Time will the amount of time you red his burden, should be sent to Office, U.S. Department of END FEES OR COMPLETT for Patents, Alexandria, Virgit duction Act of 1995, no per	(and by the US 2 and 37 CFR 1.1 hering, preparing, vary depending quire to complet the Chief Inform Commerce, A ED FORMS TO hia 22313-1450.	PTO to process) an 4. This collection is , and submitting the upon the individual te this form and/or nation Officer, U.S. lexandria, Virginia THIS ADDRESS.				



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria. Virginia 22313-1450

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10/036,804	12/21/2001	Paris E. Blair	32237US2	5361	
00116	7590 03/02/2004		EXAM	INER	
PEARNE & GORDON LLP			NEUDER, WILLIAM P		
1801 EAST 9TI SUITE 1200	H STREET		ART UNIT	PAPER NUMBER	
CLEVELAND,	OH 44114-3108		3672		
•			DATE MAILED: 03/02/2004	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
No. Consult Allacon Little	10/036,804	BLAIR ET AL.			
Notice of Allowability	Examiner	Art Unit			
	William P Neuder	3672			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>amendment filed 2/9/</u>	<u>04</u> .				
2. \boxtimes The allowed claim(s) is/are <u>9-12,14 and 16-22</u> .					
3. \boxtimes The drawings filed on <u>21 December 2001</u> are accepted by	the Examiner.				
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 					
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the					
attached Examiner's comment regarding REQUIREMENT Attachment(s) 1. □ Notice of References Cited (PTO-892)	_	Patent Application (PTO-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar				
 3.	_				
		William P Neuder Primary Examiner Art Unit: 3672			

Application/Control Number: 10/036,804 Page 2

Art Unit: 3672

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: In claim 16, line 1, "15" has been changed to -14--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P Neuder whose telephone number is 703-308-2150. The examiner can normally be reached on Tuesday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J Bagnell can be reached on 703-308-2151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William P Neuder Primary Examiner Art Unit 3672